634

ARKIV FÖR FYSIK

UTGIVET AV

KUNGL. SVENSKA VETENSKAPS-

AKADEMIEN

Band 27

Med 32 avhandlingar

ALMQVIST & WIKSELL

STOCKHOLM

GÖTEBORG · UPPSALA

1965

Häfte 1 innehållande Nr 1– 6 utkom den 10 juni 1964
» 2 » Nr 7–14 » » 1 sept. 1964
» 3 » Nr 15–19 » » 3 » 1964
» 4 » Nr 20–27 » » 26 jan. 1965
» 5 » Nr 28–29 » » 28 » 1965
» 6 » Nr 30–32 » » 21 maj 1965

TJUGOSJUNDE BANDETS INNEHÅLL

Sid.

1. Arnell, S. E. and Wernbom-Selin, E., Capture and inelastic scattering of protons by Ne^{21} 1–16
2. Berglund, S., Westerlund, S. and Nygren, P., A characteristic of the toroidal pinch with a reversed field 17–31
3. Arnell, S. E. and Sterner, S., A search for positron branching in the $Mn^{51}(\beta^+)Cr^{51}$ transition 33–39
4. Arnell, S. E. and Persson, P. O., Gamma rays from proton bombardment of A^{40} 41–59
5. Karlsson, S. E., Bergman, O. and Scheuer, W., The decay of Rh^{105} . . 61–67
6. Fahlman, A. and Hagström, S., Determination of atomic energy levels in the elements $_{73}Ta$ to $_{83}Bi$ by the photo electron method 69–96
7. Salomon, M., Boström, L., Lindqvist, T., Perez, M. and Zwanziger, M., Studies of the electric quadrupole interaction with the differential angular correlation method 97–121
8. Ljunggren, S., On the light distribution in the image plane in schlieren and related methods as a function of the refractive index distribution 123–131
9. Aasa, E., Sundström, T., Bergman, O., Lindskog, J. and Sevier, K., A conversion electron study of the decay of Pb^{201} 133–141
10. Schörling, P. O., Some flash X-ray lines of Dy, Zn, Cr and V 143–159
11. Andersson, I. and Hagström, S., Precision measurements of L levels in the elements $_{35}Br$, $_{37}Rb$, $_{53}I$, $_{55}Cs$, and $_{56}Ba$ 161–171
12. Kubát, J., Palm, A. and Steenberg, B., Electrical noise generated in graphite suspensions during shearing 173–180
13. Nagel, B., The saddle point method for multiple integrals, with an application to the evaluation of radial Coulomb matrix elements for large multipole orders 181–192
14. Egardt, L., On the construction of invariants for $SU(n)$ 193–194
15. Troncoso O., L., Experimental evidence of a directional event during the cosmic ray storm in December 1957 195–214
16. Grosshög, G., Measurement of the slowing-down time of Ra–Be neutrons in water 215–226
17. Ringström, U., The absorption spectra of gold hydride and gold deuteride in the far ultraviolet 227–265
18. Stenman, A., The use of the mean blob length method for the identification of heavy primaries in cosmic radiation 267–274
19. Larsson, T. and Neuhaus, H., Magnetic effects in the spectrum of indium hydride and their relevance for the coupling problem 275–287
20. Eriksson, H. A. S., On an attempt to reduce the number of basic constants in elementary particle physics by introducing pseudoscalar parameters. Part II. Nuclear forces 289–304
21. Bonnevier, B., On the early development of the metagalactic system . . 305–311
22. Claeson, T. and Gerward, L., An X-ray topographical method for dislocation mapping in nearly perfect crystals 313–316
23. Petersson, B., Remeasured Ne *I*, Ar *I*, Kr *I*, and Xe *I* lines in the vacuum ultraviolet 317–319

24. Bergkvist, K.-E. and Hultberg, S., A precision measurement of $(\alpha_2)_K$ of the 412 keV transition in Hg^{198} by the internal–external conversion method and a high resolution study of the 412 keV angular distribution of gold K-shell photoelectrons 321–338
25. Bergkvist, K.-E. and Stockendal, R., On the M4 isomerism in Pb^{205} . 339–350
26. Bergkvist, K.-E., A method for the reduction of the Compton background of external conversion measurements 351–372
27. Kihlberg, A., On a class of explicit representations of the homogeneous Lorentz group 373–382
28. Bergkvist, K.-E., Combined electrostatic-magnetic β-spectrometer with high luminosity. Part I: Principles and basic properties 383–437
29. Bergkvist, K.-E., Combined electrostatic-magnetic β-spectrometer with high luminosity. Part II: Application of the methods to an $r_0 = 50$ cm iron yoke double focusing spectrometer 439–482
30. Bergkvist, Karl-Erik, An experimental determination of the angular distributions of photoelectrons from the different L subshells in gold at $E_\gamma = 412$ keV 483–500
31. Möller, E. and Sjöstrand, N. G., Measurement of the slowing-down and thermalization time of neutrons in water 501–530
32. von Döbeln, Wilhelm and Lindell, Bo, Some aspects of radon contamination following ingestion 531–572